

SKRIPSI
PENGEMBANGAN MODUL PEMBELAJARAN FISIKA BERBASIS KERJA
LABORATORIUM DENGAN PENDEKATAN *SCIENCE PROCESS SKILLS*
(*SPS*) UNTUK MENINGKATKAN *ACADEMIC PERFORMANCE* RANAH
KOGNITIF DAN PSIKOMOTOR

Oleh
MARTHA RIRIS V S
08302244022

ABSTRAK

Penelitian ini bertujuan untuk (1) mengetahui bahwa pengembangan modul pembelajaran fisika berbasis kerja laboratorium dengan pendekatan *Science Process Skills (SPS)* bisa digunakan dalam pembelajaran fisika di sekolah; (2) mengetahui bahwa pengembangan modul pembelajaran fisika berbasis kerja laboratorium dapat meningkatkan *academic performance* ranah kognitif siswa; (3) mengetahui bahwa pengembangan modul pembelajaran fisika berbasis kerja laboratorium dapat meningkatkan *academic performance* ranah psikomotor siswa.

Penelitian ini merupakan jenis penelitian *Research and Development (R & D)*. Objek dari penelitian ini adalah 31 siswa kelas X MIA 2 di SMA N 1 Kasihan, Bantul. Hasil pengamatan berupa nilai *pretest* dan *posttest* siswa untuk penilaian kognitif serta penilaian psikomotor siswa selama mengikuti pembelajaran dengan modul berbasis kerja laboratorium berdasarkan penilaian dari observer.

Hasil penelitian menunjukkan bahwa (1) Modul fisika berbasis kerja laboratorium yang telah dikembangkan bisa digunakan dalam pembelajaran fisika di sekolah sesuai dengan penilaian dari dosen ahli dalam kategori baik; (2) Modul fisika berbasis kerja laboratorium yang telah dikembangkan dapat meningkatkan *academic performance* ranah kognitif siswa; (3) Modul fisika berbasis kerja laboratorium yang telah dikembangkan dapat meningkatkan *academic performance* ranah psikomotor siswa. Berdasarkan hasil olahan data dapat ditarik kesimpulan bahwa terdapat peningkatan *academic performance* ranah kognitif siswa dengan nilai *gain* 0,644 yang berarti peningkatan dalam kategori sedang. Untuk *academic performance* ranah psikomotor siswa adalah dalam kategori sangat baik.

Kata kunci: kerja laboratorium, *Science Process Skills (SPS)*, ranah kognitif, ranah psikomotor

THESIS
DEVELOPMENT OF PHYSICS MODULE LABORATORY WORK BASED BY
SCIENCE PROCESS SKILLS APPROACH TO IMPROVE ACADEMIC
PERFORMANCE OF COGNITIVE AND PSYCHOMOTOR DOMAIN

By
MARTHA RIRIS V S
08302244022

ABSTRACT

This study aims to (1) Determine that the development of physics module laboratory work based by Science Process Skills (SPS) can be used in teaching physics at school; (2) Determine that the development of physics module laboratory work based by Science Process Skills (SPS) can improve students academic performance of cognitive domain; (3) Determine that the development of physics module laboratory work based by Science Process Skills (SPS) can improve academic performance of students psychomotor. This research is a type of Research and Development (R & D). The object of this study were 31 students of class X MIA 2 at SMA N 1 Kasihan, Bantul. The observations in the form of students pretest and posttest values for assessment of cognitive, and psychomotor assessment of students during the learning of physics module laboratory work based on the assessment of the observer laboratory. The results showed that (1) Physics module laboratory work that has been developed can be used in physics teaching in schools in accordance with the assessment of expert judgement in good categories; (2) Physics module laboratory work that has been developed can improve the academic performance of students cognitive domain; (3) Physics module laboratory work that has been developed can improve the academic performance of students psychomotor. Based on the results of data processing can be concluded that there is an increase in academic performance of students with cognitive gain value of 0.644 which means an increase in the medium category. For the academic performance of students psychomotor is in the excellent category.

Keywords: laboratory work, Science Process Skills (SPS), cognitive domain, psychomotor domain